

Claims:

1. A method in the manufacture of coating, in which method the coating is manufactured by mixing together two or more components, **characterised in that**
5 the mixing of components is carried out by mixing two or more components in two or more mixing zones arranged in series and/or in parallel, of which at least some are pressurised.
2. A method according to Claim 1, **characterised in that** the pressure level in a
10 mixing zone is typically about 100-1000 kPa and preferably about 200-500 kPa.
3. A method according to Claim 1 or 2, **characterised in that** the components to be mixed are in a pressurised space also at least between the pressurised mixing zones.
- 15 4. A method according to Claim 3, **characterised in that** in the method a mixing arrangement is used, which is pressurised from the component feeding pumps to the machine container.
5. A method according to any of the above mentioned Claims, **characterised in that**
20 at least one of the components to be mixed is led to the mixing zone through a deaeration means.
6. A method according to any of the above mentioned Claims, **characterised in that** the temperature of the coating is controlled with a temperature control system
25 arranged in connection with one or more mixing zones.
7. A method according to any of the above mentioned Claims, **characterised in that** the components mixed in one or more mixing zones are fed to a pressure screen.

8. A method according to any of the above mentioned Claims, **characterised in** that the components mixed in one or more mixing zones are fed to a separator, into which an underpressure of approximately 0.5-50 kPa and preferably approximately 2-15 kPa is arranged.

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9. A method according to Claim 8, **characterised in** that from the separator the mixture is transferred for screening and from the screening it is further transferred to the coating station.

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10. A method according to any of the above mentioned Claims, **characterised in** that the properties of the mixture and/or a part of the mixture formed by the mixed components are measured with one or more measurement devices arranged after at least one mixing zone.

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11. An arrangement in the manufacture of coating, which comprises at least means for transferring and mixing the coating components, **characterised in** that the means for mixing the components are arranged to two or more serial and/or parallel mixing zones, of which at least some are pressurised.

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12 . An arrangement according to Claim 11, **characterised in** that into the mixing zone a pressure level has been arranged, which typically is approximately 100-1000 kPa and preferably approximately 200-500 kPa.

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13 . An arrangement according to Claim 11 or 12, **characterised in** that the arrangement is also pressurised between the mixing zones.

14. An arrangement according to any of Claims 11-13 **characterized in** that there are means comprised for removing and/or reducing air from one or more components being fed to a mixing zone.

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15. An arrangement according to any of Claims 11-14 **characterised in** that the arrangement comprises means for removing air from the mixture, which means comprise a separator, in which an underpressure is arranged, which is approximately 0.5 -50 kPa and preferably approximately 2-15 kPa .

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16. An arrangement according to any of the above mentioned Claims 11-15, **characterised in** that the arrangement comprises at least one temperature control system for adjusting the temperature of the coating being mixed in the mixer arranged in connection to at least one mixer comprised in the mixing zone.

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17. An arrangement according to any of the above mentioned Claims 11-16, **characterised in** that the arrangement comprises at least one pressure screen for screening the mixture at least after one mixing zone.

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18. An arrangement according to Claim 17, **characterised in** that the pressure screen is a perforated, slotted or oval screen.

19. An arrangement according to Claim 17 or 18, **characterised in** that the perforation size of the pressure screen is approximately 65 - 300 micrometres.

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20. An arrangement according to any of Claims 14-19 **characterised in** that the arrangement comprises means for transferring the mixture from the separator and/or pressure screen to one or more coating stations.

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21. An arrangement according to Claim 20, **characterised in** that the arrangement comprises means for measuring the amount of the mixture being transferred to one or more coating stations.

22. An arrangement according to any of the above mentioned Claims 11-21, **characterised in** that it comprises means and/or the arrangement is connected to means for measuring the properties of the mixture formed from mixed components.
- 5 23. An arrangement according to Claim 22, **characterised in** that the means for measuring the properties of the mixture formed from mixed components comprise at least one or more measuring devices arranged after at least one mixing zone.